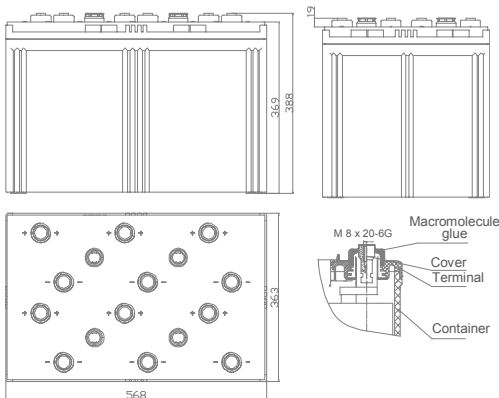




# HIGH PERFORMANCE MR 2-3000 Max

VALVE REGULATED LEAD ACID  
2V FLAT PASTED PLATE  
BATTERY



## Innovative Features

- ◆ Valve Regulated Lead Acid (V.R.L.A.) design
- ◆ Fully tank formed plates
- ◆ Never needs addition of water
- ◆ Spill-proof and leak-proof
- ◆ Proprietary Fixed Orifice Plate Pasting technology applying active materials on both sides of the grid for consistent cell-to-cell performance, higher capacity and uniform grid protection.
- ◆ Operates at a low internal pressure
- ◆ For use in vertical or horizontal position
- ◆ Each cell has a low pressure safety release venting system
- ◆ Standard: Reinforced ABS (UL 94HB) container and cover.  
Optional: Flame-retardant reinforced ABS container and cover compliant with U.L.94 V-0 with an Oxygen limiting Index of greater than 28%
- ◆ Nano-Carbon enhanced active material to maximize cycle performance and PSoC operation
- ◆ Low calcium Lead/Tin alloy plates for efficient gas recombination for long life in both cycling and float applications

## Performance Specifications

<b>Normal Voltage</b>	2V
<b>Capacity</b>	3000 Ah @ 10hr to 1.80V per cell @ 20°C (68°F)
<b>Dimension</b>	Length x Width x Height x Total Height: 568 x 363 x 369 x 388 (mm)
<b>Weight</b>	Approx. 172 kg (378 lbs)
<b>Internal Resistance</b>	Approx. 0.12 mΩ
<b>Short Circuit Current</b>	24200 A
<b>Self Discharge @ 25°C (77°F)</b>	No more than 3% after 30 days storage
<b>Applicable Operating Temperature Range</b>	-40°C~70°C (40°F~158°F)
<b>Ideal Operating Temperature Range</b>	20°C~30°C (68°F~86°F)
<b>Maximum Charge Current</b>	600 A
<b>Charging Voltage @ 25°C (77°F)</b>	Float: 2.23V, Temps coefficient -3 mV/°C Cycle: 2.30V
<b>Contain Materials</b>	ABS
<b>Terminal Type</b>	F-M8
<b>Capacity Affected by Temperature</b>	105% @ 40°C 85% @ 0°C 60% @ -20°C



Constant Current Discharge Characteristics - Watts Per Cell @ 20°C (68°F)

Final VPC	1.5hr	2hr	3hr	4hr	5hr	6hr	8hr	10hr	12hr	20hr	24hr
1.85	2359	1969	1471	1152	959	839	682	564	481	394	265
1.80	2482	2074	1550	1214	1011	885	719	595	507	415	279
1.75	2557	2139	1601	1255	1045	915	744	616	525	430	289

Constant Power Discharge Characteristics - Amperes Per Cell @ 20°C (68°F)

Final VPC	1.5hr	2hr	3hr	4hr	5hr	6hr	8hr	10hr	12hr	20hr	24hr
1.85	1226	1019	755	587	487	425	343	283	241	148	132
1.80	1300	1081	801	623	516	450	364	300	255	157	139
1.75	1356	1127	835	649	538	470	380	313	266	164	145

